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Sequence Listing was accepted.

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Reviewer: Anne Corrigan

Timestamp: [year=2008; month=9; day=4; hr=18; min=4; sec=30; ms=508;]

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Application No: 10547206 Version No: 2.0

Input Set:

Output Set:

Started: 2008-07-31 16:00:40.207
Finished: 2008-07-31 16:00:42.268
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 61 ms
Total Warnings: 59
Total Errors: 0
No. of SeqIDs Defined: 62
Actual SeqID Count: 62

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22)

Input Set:

Output Set:

Started: 2008-07-31 16:00:40.207
Finished: 2008-07-31 16:00:42.268
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Total Warnings: 59
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Actual SeqID Count: 62

Error code	Error Description
	This error has occurred more than 20 times, will not be displayed
W 402	Undefined organism found in <213> in SEQ ID (59)
W 402	Undefined organism found in <213> in SEQ ID (60)
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SEQUENCE LISTING

<110> Jacquet, Alain

<120> Hypoallergenic Der p1 and Der p3
Proteins From Dermatographoides Pteronyssinus

<130> VB60107

<140> 10547206

<141> 2006-05-19

<150> PCT/EP2004/001850

<151> 2004-02-24

<150> 00304424.5

<151> 2003-02-26

<160> 62

<170> FastSEQ for Windows Version 4.0

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<211> 909

<212> DNA

<213> Dermatophagoides pteronyssinus

<400> 1

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<210> 2

<211> 302

<212> PRT

<213> Dermatophagoides pteronyssinus

<400> 2

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Cys	Ala	Ser	Gln	His	Gly	Cys	His	Gly	Asp	Thr	Ile	Pro	Arg	Gly	Ile	
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165					170					175						
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180					185					190						
Ile	Ser	Asn	Tyr	Cys	Gln	Ile	Tyr	Pro	Pro	Asn	Val	Asn	Lys	Ile	Arg	
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Glu	Ala	Leu	Ala	Gln	Thr	His	Ser	Ala	Ile	Ala	Val	Ile	Ile	Gly	Ile	
210					215					220						
Lys	Asp	Leu	Asp	Ala	Phe	Arg	His	Tyr	Asp	Gly	Arg	Thr	Ile	Ile	Gln	
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Arg	Asp	Asn	Gly	Tyr	Gln	Pro	Asn	Tyr	His	Ala	Val	Asn	Ile	Val	Gly	
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Asp	Thr	Asn	Trp	Gly	Asp	Asn	Gly	Tyr	Gly	Tyr	Phe	Ala	Ala	Asn	Ile	
275					280					285						
Asp	Leu	Met	Met	Ile	Glu	Glu	Tyr	Pro	Tyr	Val	Val	Ile	Leu			
290					295					300						

<210> 4

<211> 909

<212> DNA

<213> Artificial Sequence

<220>

<223> Mutant of ProDer P1 C4R (Der P1 numbering)

<400> 4

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ttcctgatga gcgccgaggc tttcgaacac cttaagaccc agtttgatct caacgcggag 240
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accgtgactc ccatcgcgat gcaaggcggc tgcgggtctt gttgggcctt ttcaggcgtg 360
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<210> 5

<211> 302

<212> PRT

<213> Artificial Sequence

<220>

<223> Mutant of ProDer P1 C31R

<400> 5

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Leu Glu Ser Val Lys Tyr Val Gln Ser Asn Gly Gly Ala Ile Asn His
          35           40           45
Leu Ser Asp Leu Ser Leu Asp Glu Phe Lys Asn Arg Phe Leu Met Ser
          50           55           60
Ala Glu Ala Phe Glu His Leu Lys Thr Gln Phe Asp Leu Asn Ala Glu
          65           70           75           80
Thr Asn Ala Cys Ser Ile Asn Gly Asn Ala Pro Ala Glu Ile Asp Leu
          85           90           95
Arg Gln Met Arg Thr Val Thr Pro Ile Arg Met Gln Gly Gly Arg Gly
          100          105          110
Ser Cys Trp Ala Phe Ser Gly Val Ala Ala Thr Glu Ser Ala Tyr Leu
          115          120          125
Ala Tyr Arg Asn Gln Ser Leu Asp Leu Ala Glu Gln Glu Leu Val Asp
          130          135          140
Cys Ala Ser Gln His Gly Cys His Gly Asp Thr Ile Pro Arg Gly Ile
          145          150          155          160
Glu Tyr Ile Gln His Asn Gly Val Val Gln Glu Ser Tyr Tyr Arg Tyr
          165          170          175
Val Ala Arg Glu Gln Ser Cys Arg Arg Pro Asn Ala Gln Arg Phe Gly
          180          185          190
Ile Ser Asn Tyr Cys Gln Ile Tyr Pro Pro Asn Val Asn Lys Ile Arg
          195          200          205
Glu Ala Leu Ala Gln Thr His Ser Ala Ile Ala Val Ile Ile Gly Ile
          210          215          220
Lys Asp Leu Asp Ala Phe Arg His Tyr Asp Gly Arg Thr Ile Ile Gln
          225          230          235          240
Arg Asp Asn Gly Tyr Gln Pro Asn Tyr His Ala Val Asn Ile Val Gly
          245          250          255
Tyr Ser Asn Ala Gln Gly Val Asp Tyr Trp Ile Val Arg Asn Ser Trp
          260          265          270
Asp Thr Asn Trp Gly Asp Asn Gly Tyr Gly Tyr Phe Ala Ala Asn Ile
          275          280          285
Asp Leu Met Met Ile Glu Glu Tyr Pro Tyr Val Val Ile Leu
          290          295          300
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<210> 6

<211> 909

<212> DNA

<213> Artificial Sequence

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<223> Mutant of ProDer P1 C31R

<400> 6

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ttcctgatga ggcgcgaggg tttegaacac cttaagaccc agtttgatct caacgcggag 240
accaacgcct gcagtatcaa cggaatgcc cccgctgaga ttgatctgcg ccagatgagg 300
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gccgcgacag agtcggcata cctcgcgtat cggaatcaga gcctggacct cgctgagcag 420
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cagtcctgcc gccgtcctaa cgcacagcgc ttcggcattt ccaattattg ccagatctac 600
ccccctaata ccaacaagat cagggaggcc ctggcgaga cgcacagcgc catcgctgtc 660
atcatcgcaa tcaaggatct ggacgcattc cggcactatg acgggcgcac aatcatccag 720
cgcgacaacg gatatacagc aaactaccac gcggtcaaca tcgtgggtta ctgcaacgcc 780
caggggggtg actactggat cgtgagaaac agttgggaca ctaactgggg cgacaacggc 840
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<210> 7

<211> 302

<212> PRT

<213> Artificial Sequence

<220>

<223> Mutant of ProDer P1 C65R

<400> 7

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Lys Ser Tyr Ala Thr Phe Glu Asp Glu Glu Ala Ala Arg Lys Asn Phe
          20          25          30
Leu Glu Ser Val Lys Tyr Val Gln Ser Asn Gly Gly Ala Ile Asn His
          35          40          45
Leu Ser Asp Leu Ser Leu Asp Glu Phe Lys Asn Arg Phe Leu Met Ser
          50          55          60
Ala Glu Ala Phe Glu His Leu Lys Thr Gln Phe Asp Leu Asn Ala Glu
65          70          75          80
Thr Asn Ala Cys Ser Ile Asn Gly Asn Ala Pro Ala Glu Ile Asp Leu
          85          90          95
Arg Gln Met Arg Thr Val Thr Pro Ile Arg Met Gln Gly Gly Cys Gly
          100          105          110
Ser Cys Trp Ala Phe Ser Gly Val Ala Ala Thr Glu Ser Ala Tyr Leu
          115          120          125
Ala Tyr Arg Asn Gln Ser Leu Asp Leu Ala Glu Gln Glu Leu Val Asp
          130          135          140
Arg Ala Ser Gln His Gly Cys His Gly Asp Thr Ile Pro Arg Gly Ile
145          150          155          160
Glu Tyr Ile Gln His Asn Gly Val Val Gln Glu Ser Tyr Tyr Arg Tyr
          165          170          175
Val Ala Arg Glu Gln Ser Cys Arg Arg Pro Asn Ala Gln Arg Phe Gly
          180          185          190
Ile Ser Asn Tyr Cys Gln Ile Tyr Pro Pro Asn Val Asn Lys Ile Arg
          195          200          205
Glu Ala Leu Ala Gln Thr His Ser Ala Ile Ala Val Ile Ile Gly Ile
          210          215          220
Lys Asp Leu Asp Ala Phe Arg His Tyr Asp Gly Arg Thr Ile Ile Gln
225          230          235          240
Arg Asp Asn Gly Tyr Gln Pro Asn Tyr His Ala Val Asn Ile Val Gly
          245          250          255

```


Tyr	Ser	Asn	Ala	Gln	Gly	Val	Asp	Tyr	Trp	Ile	Val	Arg	Asn	Ser	Trp
			260						265					270	
Asp	Thr	Asn	Trp	Gly	Asp	Asn	Gly	Tyr	Gly	Tyr	Phe	Ala	Ala	Asn	Ile
			275						280					285	
Asp	Leu	Met	Met	Ile	Glu	Glu	Tyr	Pro	Tyr	Val	Val	Ile	Leu		
			290					295					300		

<210> 8
 <211> 909
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Mutant of ProDer P1 C65R

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 agcaacggcg gggctataaa tcacctgtcc gacctgtctt tagacgagtt caagaaccgg 180
 ttcctgatga gcgccgaggc ttctgaacac ctttaagacc agtttgatct caacgcggag 240
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 35 40 45
 Leu Ser Asp Leu Ser Leu Asp Glu Phe Lys Asn Arg Phe Leu Met Ser
 50 55 60
 Ala Glu Ala Phe Glu His Leu Lys Thr Gln Phe Asp Leu Asn Ala Glu
 65 70 75 80
 Thr Asn Ala Cys Ser Ile Asn Gly Asn Ala Pro Ala Glu Ile Asp Leu
 85 90 95
 Arg Gln Met Arg Thr Val Thr Pro Ile Arg Met Gln Gly Gly Cys Gly
 100 105 110

Ser	Cys	Trp	Ala	Phe	Ser	Gly	Val	Ala	Ala	Thr	Glu	Ser	Ala	Tyr	Leu	
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Ala	Tyr	Arg	Asn	Gln	Ser	Leu	Asp	Leu	Ala	Glu	Gln	Glu	Leu	Val	Asp	
130					135					140						
Cys	Ala	Ser	Gln	His	Gly	Arg	His	Gly	Asp	Thr	Ile	Pro	Arg	Gly	Ile	
145					150					155					160	
Glu	Tyr	Ile	Gln	His	Asn	Gly	Val	Val	Gln	Glu	Ser	Tyr	Tyr	Arg	Tyr	
165					170					175						
Val	Ala	Arg	Glu	Gln	Ser	Cys	Arg	Arg	Pro	Asn	Ala	Gln	Arg	Phe	Gly	
180					185					190						
Ile	Ser	Asn	Tyr	Cys	Gln	Ile	Tyr	Pro	Pro	Asn	Val	Asn	Lys	Ile	Arg	
195					200					205						
Glu	Ala	Leu	Ala	Gln	Thr	His	Ser	Ala	Ile	Ala	Val	Ile	Ile	Gly	Ile	
210					215					220						
Lys	Asp	Leu	Asp	Ala	Phe	Arg	His	Tyr	Asp	Gly	Arg	Thr	Ile	Ile	Gln	
225					230					235					240	
Arg Asp Asn																